Appln. No.: 10/718,953 KPG-5098US

Amendment Dated April 22, 2005 Reply to Office March 29, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application: Listing of Claims:

1. (Currently Amended) A method for forming an image, the method comprising the steps of:

- a) imaging an imageable element with ultraviolet radiation, the imageable element comprising an imageable layer over a support, and forming an imaged imageable element comprising imaged and complementary unimaged regions in the imageable layer; and
- b) developing the imaged imageable element with a developer and removing the unimaged regions without removing the imaged regions;

in which:

the imageable layer comprises an acid generator, a crosslinking agent, and a binder;

the acid generator is an iodonium, sulfonium, or diazonium salt in which the anion is an organic sulfate anion or an organic thiosulfate anion;

the crosslinking agent comprise at least two acid-activatable reactive groups;

the binder comprises a polymer that contains a reactive pendent group capable of undergoing acid-catalyzed crosslinking with the crosslinking agent, in which the reactive pendent group is selected from the group consisting of hydroxyl, carboxylic acid, sulfonamide, alkoxymethyl, and mixtures thereof;

the imageable layer additionally comprises a colorant; and

the developer is a solvent based developer.

- 2. (Original) The method of claim 1 in which imaging is direct digital imaging.
- 3. (Original) The method of claim 1 in which the reactive pendent group is an alkoxymethyl group.
 - 4. (Original) The method of claim 3 in which the alkoxy group of the alkoxymethyl

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group has one to four carbon atoms.

- 5. (Original) The method of claim 4 in which the binder is a copolymer that comprises, in polymerized form, an alkoxymethyl amide monomer selected from the group consisting of N-methoxymethyl methacrylamide, N-ethoxymethyl methacrylamide, N-n-propoxymethyl methacrylamide, N-iso-propoxymethyl methacrylamide, N-n-butoxymethyl methacrylamide, N-sec-butoxymethyl methacrylamide N-tert-butoxymethyl methacrylamide, and N-iso-butoxymethyl methacrylamide.
 - 6. (Original) The method of claim 4 in which the acid generator is a diazonium salt.
- 7. (Original) The method of claim 6 in which the anion of the diazonium salt is an organic sulfate anion.
 - 8. (Original) The method of claim 7 in which the crosslinking agent is a resole resin.
- 9. (Original) The method of claim 8 in which the cation of the diazonium salt is a 2-methoxy-4-(phenylamino)-benzenediazonium cation.
- 10. (Original) The method of claim 1 in which the binder additionally comprises a novolac resin, novolac resin derivitized with a polar group, or a mixture thereof.
 - 11. (Original) The method of claim 10 in which the acid generator is a diazonium salt.
 - 12. (Original) The method of claim 11 in which the crosslinking agent is a resole resin.
 - 13. (Original) The method of claim 12 in which:

the acid generator is a diazonium salt anion in which the anion of the diazonium salt is an organic sulfate anion and the cation of the diazonium salt is a 2-methoxy-4-(phenylamino)-benzenediazonium cation; and

the crosslinking agent is a resole resin.

14. (Original) The method of claim 1 additionally comprising, after step a) and before step b), the step of heating the imaged imageable element.

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15. Canceled

16. (Original) The method of claim 14 in which the reactive pendent group is an alkoxymethyl group in which the alkoxy group has one to four carbon atoms.

- 17. (Currently Amended) The method of claim-15 14 in which the crosslinking agent is a resole resin.
- 18. (Original) The method of claim 17 in which about 20 mJ/cm² or less of imaging energy is used in step a).
- 19. (Currently Amended) The method of claim—18_35 in which the acid generator is a diazonium salt in which the anion of the diazonium salt is an organic sulfate anion and the cation of the diazonium salt is a 2-methoxy-4-(phenylamino)-benzenediazonium cation.
- 20. (Original) The method of claim 19 in which the binder is a copolymer that comprises, in polymerized form, an alkoxymethyl amide monomer selected from the group consisting of N-methoxymethyl methacrylamide, N-ethoxymethyl methacrylamide, N-n-propoxymethyl methacrylamide, N-iso-propoxymethyl methacrylamide, N-n-butoxymethyl methacrylamide, N-sec-butoxymethyl methacrylamide N-tert-butoxymethyl methacrylamide, and N-iso-butoxymethyl methacrylamide.
- 21. (Original) The method of claim 19 in which about 10 mJ/cm² or less of imaging energy is used in step a).
- 22. (Original) The method of claim 21 in which the binder additionally comprises a novolac resin, novolac resin derivitized with a polar group, or a mixture thereof.
- 23. (Original) The method of claim 22 in which the novolac resin and novolac resin derivitized with a polar group together comprise about 0.5 wt% to about 10 wt% of the imageable layer.
- 24. (Original) The method of claim 23 in which the reactive pendent group is an alkoxymethyl group in which the alkoxy group has one to four carbon atoms.
 - 25. (Original) The method of claim 24 in which the crosslinking agent is a resole resin.

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26. (Original) The method of claim 25 in which the acid generator is a diazonium salt and the anion of the diazonium salt is an organic sulfate anion.

- 27. Canceled.
- 28. (Currently Amended) The method of claim—27_26 in which the cation of the diazonium salt is a 2-methoxy-4-(phenylamino)-benzenediazonium cation.
 - 29. Canceled
- 30. (Original) The method of claim 1 in which about 10 mJ/cm² or less of imaging energy is used in step a).
- 31. (Original) The method of claim 1 in which about 5 mJ/cm² to about 6 mJ/cm² of imaging energy is used in step a).
 - 32. (New) A method for forming an image, the method comprising the steps of:
- a) imaging an imageable element with ultraviolet radiation, the imageable element comprising an imageable layer over a support, and forming an imaged imageable element comprising imaged and complementary unimaged regions in the imageable layer; and
- b) developing the imaged imageable element with a developer and removing the unimaged regions without removing the imaged regions;

in which:

the imageable layer comprises an acid generator, a crosslinking agent, and a binder;

the acid generator is an iodonium, sulfonium, or diazonium salt in which the anion is an organic sulfate anion or an organic thiosulfate anion;

the crosslinking agent comprise at least two acid-activatable reactive groups;

the binder comprises a polymer that contains a reactive pendent group capable of undergoing acid-catalyzed crosslinking with the crosslinking agent, in which the reactive pendent group is selected from the group consisting of hydroxyl, carboxylic acid, sulfonamide,

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alkoxymethyl, and mixtures thereof;

about 20 mJ/cm² or less of imaging energy is used in step a); and the developer is a solvent based developer.

- 33. (New) The method of claim 32 additionally comprising, after step a) and before step b), the step of heating the imaged imageable element.
- 34. (New) The method of claim 33 in which the reactive pendent group is an alkoxymethyl group in which the alkoxy group has one to four carbon atoms.
 - 35. (New) The method of claim 34 in which the crosslinking agent is a resole resin.
- 36. (New) The method of claim 28 in which about 5 mJ/cm² to about 6 mJ/cm² of imaging energy is used in step a).